

Call for Applications for the 2015 Sandia National Laboratories Nonlinear Mechanics and Dynamics Summer Research Institute

The 2015 Sandia National Laboratories Nonlinear Mechanics And Dynamics Summer Research Institute is **open to graduate students and early career researchers from both the US and international communities**. The goal of this institute is to bring together participants with diverse technical backgrounds from around the world to work in small teams on projects germane to **interfacial mechanics and jointed structures**. It is our hope that this institute will help form long lasting collaborations and will make significant progress towards solving several of the major challenges in the area of joints and interfacial mechanics. Based on the success of the 2014 institute, we are seeking 18 highly motivated researchers to participate in the 2015 institute.

The institute is scheduled to last for six weeks, from **June 23rd through July 31st, 2015**, in Albuquerque, NM. After the conclusion of the institute, participants will be able to present their research at the ASME IDETC 2015 conference (<http://www.asmeconferences.org/idehc2015/>), held from August 2nd through the 5th, in Boston, MA, as part of a symposium organized for this institute. There are also a limited number of student internships available through Sandia National Laboratories for selected US graduate students, which will include support for the institute as a part of the summer assignments. For all researchers, some funds are potentially available through Sandia to cover some of the expenses associated with attending the institute. There is no registration fee or other fees for participating in the institute itself.

The organizational committee, including Matthew Brake (SNL), Pascal Reuss (Stuttgart), Christoph Schwingshackl (Imperial), Matt Allen (Wisconsin), Tim Truster (Tennessee), Zayd Leseman (New Mexico), and Chris Hammetter (SNL), has selected six projects for this year's institute:

1. Quantification of the uncertainty in lap joints
2. Structural design with joints for maximum (or minimum) dissipation
3. Effects of the experimental methods on the measurements of damping parameters
4. Round robin of numerical techniques for structural dynamics with nonlinearities
5. Stress waves propagating through jointed connections
6. Assessment of different techniques for formulating reduced order models

To formally submit an application for participating in the institute, please email Matthew Brake (mrbrake@sandia.gov) a copy of your CV, a statement of your research interests, and a statement of whether your home institution can provide funding for you to attend the institute or if you need funding. Applications are due by March 1st, 2015 and preference will be given to graduate students with several years of research experience. For more information or for details about the internships at Sandia, which are available to US citizens and that support this institute, contact Matthew Brake, or visit http://www.sandia.gov/careers/special_programs/nonlinear_mechanics_and_dynamics_summer_research_institute.html